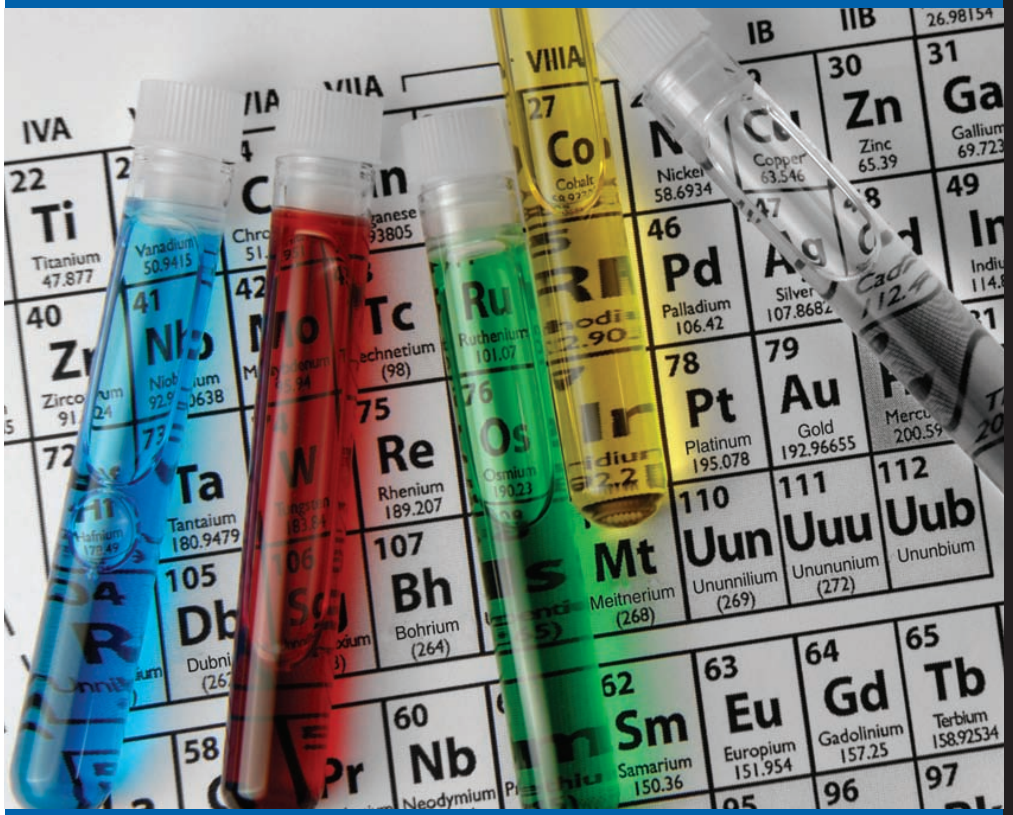
ICP Standards for Use with Popular Analytical Instrumentation



Cross-Ref ICP

AccuStandard

Alternate Source

Cross Reference ICP Standards

Merck

Varian

Agilent

JY (Jobin Yvon)

PE (Perkin Elmer)

Teledyne (Leeman Labs)

Economical alternatives to the high priced multi-element ICP solutions sold by Merck, Perkin Elmer, Varian, Agilent, Jobin Yvon and Teledyne are available from AccuStandard. Our "Alternate Source Line" offers identical formulations which can save a substantial amount in annual standards costs.

■ **More Economical** ■ **In Stock for Same Day Shipping** ■ **Identical Formulations** ■ **Manufactured by AccuStandard**

Instrument Manufactures are experts in instruments...AccuStandard is expert in analytical reference standards.

Part Number Cross Reference Table

Merck	AccuStandard
1.15474	MES-01
1.15708	MES-02
1.15626	MES-03
1.11355	MES-04
1.10714	MES-05 *
1.10580	MES-06 *
1.10322	MES-07
1.09492	MES-08 *
1.09494	MES-09 *
1.09493	MES-10 *
1.09491	MES-11 *
1.09490	MES-12 *
1.09480	MES-13 *
1.09481	MES-14
1.09482	MES-15
1.09487	MES-16
1.09495	MES-17
1.09500	MES-18
1.09496	MES-19 *
1.09497	MES-20 *
1.09498	MES-21 *
1.09499	MES-22 *
1.09410	MES-23
1.09411	MES-24

Varian	AccuStandard
190005800	WAVE-CAL-10X *
190024400	VAR-TUN

Agilent	AccuStandard
5183-4688	AG-CAL
5183-4682	AG-VER1
5188-6526	AG-INTFR
5188-6527	AG-INTFR2
5183-4687	AG-SPIKE
5183-4681	AG-INT
8500-6944	AG-MECAL1
8500-6940	AG-MECAL2
8500-6948	AG-MECAL3
8500-6942	AG-MECAL4
5188-6524	AG-TUN

Jobin Yvon	AccuStandard
JYICP-MIXHM	JY-CALHM
JYICP-MIXMAJ	JY-CAL
JYICP-MIX9	JY-CHK
JYICP-QC1	JY-CHK1
JYICP-MIX7HSI	JY-QC7
JYICP-MIX21	JY-QC21
JYICP-MIX23	JY-QC23

Perkin Elmer	AccuStandard
N0691579	PE-MCS
N9300200	PE-MCS1
N9300201	PE-MCS2
N9300202	PE-MCS3
N9300203	PE-MCS4
N9300204	PE-MCS5
N9300224	PE-CRDL
N9300281	PE-QC21
N9300280	PE-QC7

Perkin Elmer	AccuStandard
N9300225	PE-CRDL2
N0691580	PE-UV
N9300221	PE-CAL7
N9300220	PE-CAL6
N9300219	PE-CAL5
N9300218	PE-CAL4
N9300208	PE-ICS-5
N9300205	PE-ICS18
N9300226	PE-INTA
N9300228	PE-ALTINTA
N9300227	PE-ANAB
N9300229	PE-ALTB
N9300230	PE-SPIKE
N9300216	PE-SDWA1
N9300217	PE-SDWA
N9300211	PE-WPTM1
N9300212	PE-WPTM2
N9300213	PE-WPTM3
N9300214	PE-WPAM1
N9300215	PE-WPAM3
N9302946	PE-VISWAVE
N0681470	PE-UVWAVE
N0582152	PE-UVWAVE
N9303816	PE-CAL1
N9301721	PE-CAL2
N9303818	PE-CAL3
N9303825	PE-VER1
N8125030	PE-STAB *
N8125032	PE-SETUP1 *
N8122014	PE-SETUP *

Perkin Elmer	AccuStandard
N8122014	PE-SETUP2 *
N9303821	PE-CHK1
N9303822	PE-CHK3
N9303823	PE-CHK4
N9303843	PE-TUNSOL
N9303834	PE-MEINT
N9303832	PE-INT
N9300231	PE-MECAL
N9300232	PE-MECAL2
N9300233	PE-MECAL3
N9301720	PE-MECAL3
N9300234	PE-MECAL4
N9300235	PE-MECAL5
N9303839	PE-SPIKE1
N9303840	PE-SPIKE2
N9303841	PE-SPIKE3

Teledyne	AccuStandard
601-3110	TELE-CHK1 *
601-4101	TELE-CHK2 *
601-4102	TELE-CHK3 *
602-00065	TELE-CHK4
602-00067	TELE-CHK4
602-00068	TELE-CHK5
602-00070	TELE-CHK5
602-00071	TELE-CHK6
602-00073	TELE-CHK6
620-403	TELE-CHK7
602-00125	TELE-CHK8

*** nearly identical formulation**

AccuStandard is recognized for its wide range of reference standards. Our complete Inorganic product line containing single and multi-element standards for ICP, ICP-MS, AA and Ion Chromatography as well as standards for Wet Chemical applications and Wear Metals analysis are included in our **Master Catalog**.

This brochure represents a small sampling of our entire Inorganic product line.

Traceability

Standards are tracable to NIST SRMs by ICP and/or wet chemical assay.

TRACEABLE AccuTrace Reference Standards CERTIFIED

Certification and Accreditation

AccuStandard is accredited to ISO/IEC 17025 and certified to ISO 9001

AccuStandard's Master Catalog

ICP
Alternate Source

AccuStandard has received many requests for the following multi-element standards. We now offer our own version of these popular mixes offered by Merck. Products are made to the same specifications as other mixes in our product line and subject to the same rigorous quality control.

AccuStandard equivalent of Merck Multi-Element Standards

ICP Multi-Element Standard Solution I

MES-01-1 **100 mL**
MES-01-5 **500 mL**
At stated conc. (µg/mL) in 1 mol/L HNO_3 19 comps.

Ag (Silver)	50
Al (Aluminum)	100
B (Boron)	15
Ba (Barium)	5
Be (Beryllium)	1
Bi (Bismuth)	200
Cd (Cadmium)	20
Co (Cobalt)	20
Cr (Chromium)	25
Cu (Copper)	20
Fe (Iron)	15
Ga (Gallium)	150
In (Indium)	200
Mn (Manganese)	5
Ni (Nickel)	50
Pb (Lead)	200
Sr (Strontium)	1
Tl (Thallium)	400
Zn (Zinc)	20

ICP Multi-Element Standard Solution II

MES-02-1 **100 mL**
MES-02-5 **500 mL**
At stated conc. (µg/mL) in 1 mol/L HNO_3 3 comps.

Li (Lithium)	250
K (Potassium)	10,000
Na (Sodium)	1000

ICP Multi-Element Standard Solution III

MES-03-1 **100 mL**
MES-03-5 **500 mL**
1000 µg/mL each in 1 mol/L HNO_3 4 comps.

Ba (Barium)	Mg (Magnesium)
Ca (Calcium)	Sr (Strontium)

ICP Multi-Element Standard Solution IV

MES-04-1 **100 mL**
MES-04-5 **500 mL**
1000 µg/mL each in 1 mol/L HNO_3 23 comps.

Ag (Silver)	In (Indium)
Al (Aluminum)	K (Potassium)
B (Boron)	Li (Lithium)
Ba (Barium)	Mg (Magnesium)
Bi (Bismuth)	Mn (Manganese)
Ca (Calcium)	Na (Sodium)
Cd (Cadmium)	Ni (Nickel)
Co (Cobalt)	Pb (Lead)
Cr (Chromium)	Sr (Strontium)
Cu (Copper)	Tl (Thallium)
Fe (Iron)	Zn (Zinc)
Ga (Gallium)	

ICP Multi-Element Standard Solution V

MES-05-R1-1-SET **2x100 mL**
MES-05-R1-5-SET **2x500 mL**
At stated conc. (µg/mL) in 2-10% HCl 26 comps.

MES-05-R1

Al (Aluminum)	20
As (Arsenic)	20
B (Boron)	2
Ba (Barium)	2
Be (Beryllium)	1
Ca (Calcium)	10
Cd (Cadmium)	2
Cr (Chromium)	2
Cu (Copper)	2
Fe (Iron)	2
K (Potassium)	100
Li (Lithium)	2
Mg (Magnesium)	1
Mn (Manganese)	1
Na (Sodium)	20
Ni (Nickel)	5
P (Phosphorus)	10
Pb (Lead)	20
Sc (Scandium)	1
Se (Selenium)	20
Sr (Strontium)	1
Te (Tellurium)	20
Ti (Titanium)	2
Y (Yttrium)	1
Zn (Zinc)	2

MES-05-HG
5% HNO_3
Hg (Mercury) 5
Supplied separately for better stability

ICP Multi-Element Standard Solution VI for MS

MES-06-1-SET **100 mL**
MES-06-5-SET **500 mL**
At stated conc. (µg/mL) in 1 mol/L HNO_3 tr. HF 30 comps.

Ag (Silver)	10
Al (Aluminum)	10
As (Arsenic)	100
B (Boron)	100
Ba (Barium)	10
Be (Beryllium)	100
Bi (Bismuth)	10
Ca (Calcium)	1000
Cd (Cadmium)	10
Co (Cobalt)	10
Cr (Chromium)	10
Cu (Copper)	10
Fe (Iron)	100
Ga (Gallium)	10
K (Potassium)	10
Li (Lithium)	10
Mg (Magnesium)	10
Mn (Manganese)	10
Mo (Molybdenum)	10
Na (Sodium)	10
Ni (Nickel)	10
Pb (Lead)	10
Rb (Rubidium)	10
Se (Selenium)	100
Sr (Strontium)	10
Tl (Thallium)	10
U (Uranium)	10
V (Vanadium)	10
Zn (Zinc)	100

MES-06-TE
Te (Tellurium) 10
supplied separately for better stability in 10% HCl

ICP Multi-Element Standard Solution VII

MES-07-1 * **100 mL**
MES-07-5 * **500 mL**
100 µg/mL each in Water tr. HNO_3 9 comps.

NH_4 (Ammonium)	Mn (Manganese)
Ba (Barium)	Na (Sodium)
Ca (Calcium)	Sr (Strontium)
K (Potassium)	
Li (Lithium)	
Mg (Magnesium)	

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ICP Multi-Element Standard Solution VIII

MES-08-1-SET **2x100 mL**
MES-08-5-SET **2x500 mL**
100 µg/mL each in 1 mol/L HNO_3 24 comps.

MES-08

Al (Aluminum)	K (Potassium)
B (Boron)	Li (Lithium)
Ba (Barium)	Mg (Magnesium)
Be (Beryllium)	Mn (Manganese)
Bi (Bismuth)	Na (Sodium)
Ca (Calcium)	Ni (Nickel)
Cd (Cadmium)	Pb (Lead)
Co (Cobalt)	Se (Selenium)
Cr (Chromium)	Sr (Strontium)
Cu (Copper)	Tl (Thallium)
Fe (Iron)	Zn (Zinc)
Ga (Gallium)	

MES-08-TE
10% HCl
Te (Tellurium)
supplied separately for better stability

ICP Multi-Element Standard Solution IX

MES-09-1-SET **2x100 mL**
MES-09-5-SET **2x500 mL**
100 µg/mL each in 1 mol/L HNO_3 8 comps.

MES-09

As (Arsenic)	Ni (Nickel)
Be (Beryllium)	Se (Selenium)
Pb (Lead)	Tl (Thallium)
Cr (Chromium)	

MES-09-HG
Hg (Mercury)
supplied separately for better stability.

ICP Multi-Element Standard Solution X

MES-10-1 **100 mL**
MES-10-5 **500 mL**
At stated conc. (µg/mL) in 1 mol/L HNO_3 23 comps.

Ca (Calcium)	3500
Mg (Magnesium)	1500
Na (Sodium)	800
K (Potassium)	300
B (Boron)	10
Fe (Iron)	10
Mo (Molybdenum)	10
Sr (Strontium)	10
As (Arsenic)	5
Ba (Barium)	5
Ni (Nickel)	5
V (Vanadium)	5
Zn (Zinc)	5
Mn (Manganese)	3
Co (Cobalt)	2.5
Pb (Lead)	2.5
Be (Beryllium)	2
Cd (Cadmium)	2
Cr (Chromium)	2
Cu (Copper)	2
Bi (Bismuth)	1
Se (Selenium)	1
Tl (Thallium)	1

ICP Multi-Element Standard Solution XI

MES-11-1-SET **2x100 mL**
MES-11-5-SET **2x500 mL**
At stated conc. (µg/mL) in 1 mol/L HNO_3 6 comps.

MES-11

Cd (Cadmium)	10
Cr (Chromium)	900
Cu (Copper)	800
Ni (Nickel)	200
Pb (Lead)	900
Zn (Zinc)	2500

MES-11-HG
Hg (Mercury) 8
supplied separately for better product stability

These products require a Hazardous Shipping Fee except products marked with an asterisk *

ICP
Alternate Source

AccuStandard equivalent of Merck Multi-Element Standards

ICP Multi-Element Standard Solution XII

MES-12-1-SET **2x100 mL**
MES-12-5-SET **2x500 mL**
1000 µg/mL each in 5% HCl tr. HNO_3 7 comps.

MES-12-R1
As (Arsenic)
Mo (Molybdenum)
P (Phosphorus)
S (Sulfur)
Si (Silicon)
W (Tungsten)
V (Vanadium)

MES-12-ZR
Zr (Zirconium)
supplied separately for better product stability

ICP Multi-Element Standard Solution XIII

MES-13-1-SET **2x100 mL**
MES-13-5-SET **2x500 mL**
At stated conc. (µg/mL) in 5% HNO_3 15 comps.

MES-13

Al (Aluminum)	500
As (Arsenic)	100
Be (Beryllium)	100
Cd (Cadmium)	25
Co (Cobalt)	100
Cr (Chromium)	100
Cu (Copper)	100
Fe (Iron)	100
Mn (Manganese)	100
Ni (Nickel)	100
Pb (Lead)	100
Se (Selenium)	25
V (Vanadium)	250
Zn (Zinc)	100

MES-13-HG
Hg (Mercury) 5
supplied separately for better stability

ICP Multi-Element Standard Solution XIV

MES-14-1 **100 mL**
MES-14-5 **500 mL**
At stated conc. (µg/mL) in 2% HCl tr. HNO_3 11 comps.

P (Phosphorus)	100
S (Sulfur)	100
K (Potassium)	100
As (Arsenic)	20
La (Lanthanum)	20
Li (Lithium)	20
Mo (Molybdenum)	20
Mn (Manganese)	20
Ni (Nickel)	20
Sc (Scandium)	20
Na (Sodium)	20

ICP Multi-Element Standard Solution XV

MES-15-1 **100 mL**
MES-15-5 **500 mL**
At stated conc. (µg/mL) in 2% HNO_3 8 comps.

Element	µg/mL
Ba (Barium)	1
Ca (Calcium)	1
K (Potassium)	50
La (Lanthanum)	10
Li (Lithium)	10
Mn (Manganese)	10
Na (Sodium)	10
Sr (Strontium)	10

ICP Multi-Element Standard Solution XVI

MES-16-1 **100 mL**
MES-16-5 **500 mL**
100 µg/mL each in 5% HNO_3 tr. HF 21 comps.

Sb (Antimony)
As (Arsenic)
Be (Beryllium)
Cd (Cadmium)
Ca (Calcium)
Cr (Chromium)
Co (Cobalt)
Cu (Copper)
Fe (Iron)
Pb (Lead)
Li (Lithium)
Mg (Magnesium)
Mn (Manganese)
Mo (Molybdenum)
Ni (Nickel)
Se (Selenium)
Sr (Strontium)
Tl (Thallium)
Ti (Titanium)
V (Vanadium)
Zn (Zinc)

ICP Multi-Element Standard Solution XVII

MES-17-1 **100 mL**
MES-17-5 **500 mL**
100 µg/mL each in in 15% HCl tr. HNO_3 7 comps.

Hf (Hafnium)
Ir (Iridium)
Sb (Antimony)
Sn (Tin)
Ta (Tantalum)
Ti (Titanium)
Zr (Zirconium)

ICP Multi-Element GF AAS Standard Solution XVIII

MES-18-R1-1 **100 mL**
MES-18-R1-5 **500 mL**
At stated conc. (µg/mL) in 5% HNO_3 16 comps.

Ag (Silver)	10
Al (Aluminum)	100
As (Arsenic)	100
Ba (Barium)	50
Be (Beryllium)	5
Cd (Cadmium)	5
Co (Cobalt)	50
Cr (Chromium)	20
Cu (Copper)	50
Fe (Iron)	20
Mn (Manganese)	20
Ni (Nickel)	50
Pb (Lead)	100
Sb (Antimony)	100
Se (Selenium)	100
Tl (Thallium)	100

ICP Multi-Element Standard Solution XIX for MS

MES-19-1 **100 mL**
MES-19-5 **500 mL**
1 µg/mL each in 1% HNO_3 5 comps.

Be (Beryllium)
Co (Cobalt)
In (Indium)
Tl (Thallium)
U (Uranium)

ICP Multi-Element Standard Solution XX for MS

MES-20-1 **100 mL**
MES-20-5 **500 mL**
1 µg/mL each in 1% HNO_3 11 comps.

Mg (Magnesium)
Cu (Copper)
Cd (Cadmium)
Pb (Lead)
Sc (Scandium)
Rh (Rhodium)
Tl (Thallium)
Ce (Cerium)
Ge (Germanium)
Tb (Terbium)
Ba (Barium)

ICP Multi-Element Standard Solution XXI for MS

MES-21-1-SET **2x100 mL**
MES-21-5-SET **2x500 mL**
10 µg/mL each in 5% HNO_3 30 comps.

MES-21
Ag (Silver)
Al (Aluminum)
As (Arsenic)
Ba (Barium)
Be (Beryllium)
Bi (Bismuth)
Ca (Calcium)
Cd (Cadmium)
Co (Cobalt)
Cr (Chromium)
Cs (Cesium)
Cu (Copper)
Fe (Iron)
Ga (Gallium)
In (Indium)
K (Potassium)
Li (Lithium)
Mg (Magnesium)
Mn (Manganese)
Na (Sodium)
Ni (Nickel)
Pb (Lead)
Rb (Rubidium)
Se (Selenium)
Sr (Strontium)
Tl (Thallium)
V (Vanadium)
U (Uranium)
Zn (Zinc)

MES-21-HG
Hg (Mercury) 10
supplied separately for better product stability

ICP Multi-Element Standard Solution XXII for MS

MES-22-1 **100 mL**
MES-22-5 **500 mL**
2 µg/mL each in 2% HNO_3 5 comps.

Cd (Cadmium)
Cu (Copper)
Mg (Magnesium)
Pb (Lead)
Rh (Rhodium)

NEW

ICP Multi-Element Standard Solution XXIII for MS

MES-23-1 **100 mL**
MES-23-5 **500 mL**
1 µg/mL each in 5% HNO_3 15 comps.

Ba (Barium)
B (Boron)
Co (Cobalt)
Fe (Iron)
Ga (Gallium)
In (Indium)
K (Potassium)
Li (Lithium)
Lu (Lutetium)
Na (Sodium)
Rh (Rhodium)
Sc (Scandium)
Tl (Thallium)
U (Uranium)
Y (Yttrium)

NEW

ICP Multi-Element Standard Solution XXIV

MES-24-1 **100 mL**
MES-24-5 **500 mL**
At stated conc. (µg/mL) in 1% HNO_3 15 comps.

Al (Aluminum)	50
As (Arsenic)	50
Ba (Barium)	50
Cd (Cadmium)	50
Co (Cobalt)	50
Cr (Chromium)	50
Cu (Copper)	50
K (Potassium)	500
Mn (Manganese)	50
Mo (Molybdenum)	50
Ni (Nickel)	50
Pb (Lead)	50
Se (Selenium)	50
Sr (Strontium)	50
Zn (Zinc)	50

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AccuStandard is accredited to ISO Guide 34, ISO 17025 and certified to ISO 9001

ICP
Alternate Source

AccuStandard is now offering calibration and testing standards for individual instruments. The Alternate Source Line (ASL) formulations match product from:

■ **Varian** ■ **Agilent** ■ **JY (Jobin Yvon)** ■ **Perkin Elmer (PE)** ■ **Teledyne (Leeman Labs)**

All of these products have been carefully formulated to be used for specific instrument setup and verification.

AccuStandard equivalent of Varian Calibration Solutions

Varian ICP Wavelength Calibration Solution

WAVE-CAL-1 **100 mL**
WAVE-CAL-5 **500 mL**
WAVE-CAL-10X-1 **100 mL**
WAVE-CAL-10X-5 **500 mL**
At stated conc. (µg/mL) in 1% HNO_3 15 comps.

	CAL	CAL-10X
Al (Aluminum)	5	50
As (Arsenic)	5	50
Ba (Barium)	5	50
Cd (Cadmium)	5	50
Co (Cobalt)	5	50
Cr (Chromium)	5	50
Cu (Copper)	5	50
Mn (Manganese)	5	50
Mo (Molybdenum)	5	50
Ni (Nickel)	5	50
Pb (Lead)	5	50
Se (Selenium)	5	50
Sr (Strontium)	5	50
Zn (Zinc)	5	50
K (Potassium)	50	500

Varian ICP OES Calibration Solution

WAVE-CAL2-1 **100 mL**
WAVE-CAL2-5 **500 mL**
WAVE-CAL2-10X-1 **100 mL**
WAVE-CAL2-10X-5 **500 mL**
At stated conc. (µg/mL) in 1% HNO_3 14 comps.

	CAL2	CAL2-10X
Al (Aluminum)	5	50
As (Arsenic)	5	50
Ba (Barium)	5	50
Cd (Cadmium)	5	50
Co (Cobalt)	5	50
Cr (Chromium)	5	50
Cu (Copper)	5	50
Mo (Molybdenum)	5	50
Ni (Nickel)	5	50
Pb (Lead)	5	50
Sr (Strontium)	5	50
P (Phosphorus)	5	50
Zn (Zinc)	5	50
K (Potassium)	50	500

NEW

Varian ICP/MS Tuning Solution

VAR-TUN-ASL-1 **100 mL**
VAR-TUN-ASL-5 **500 mL**
10 µg/mL each in 2-5% HNO_3 8 comps.

Be (Beryllium)	Pb (Lead)
Mg (Magnesium)	Th (Thorium)
Co (Cobalt)	Ba (Barium)
In (Indium)	Ce (Cerium)

AccuStandard equivalent of Agilent Solutions

NEW

7500 Series PA Tuning 1

AG-TUN1-ASL-1 **100 mL**
AG-TUN1-ASL-5 **500 mL**
At stated conc. (µg/mL) in 5% HNO_3 26 comps.

Zn (Zinc)	20
Be (Beryllium)	20
Cd (Cadmium)	20
As (Arsenic)	20
Ni (Nickel)	10
Pb (Lead)	10
Mg (Magnesium)	10
Tl (Thallium)	5
Na (Sodium)	5
Al (Aluminum)	5
U (Uranium)	5
Cu (Copper)	5
Th (Thorium)	5
Ba (Barium)	5
Co (Cobalt)	5
Sr (Strontium)	5
V (Vanadium)	5
Cr (Chromium)	5
Mn (Manganese)	5
Li-6 (Lithium-6)	5
Sc (Scandium)	5
In (Indium)	5
Lu (Lutetium)	5
Bi (Bismuth)	5
Y (Yttrium)	2.5
Yb (Ytterbium)	2.5

7500 Series PA Tuning 2

AG-TUN2-ASL-1 **100 mL**
AG-TUN2-ASL-5 **500 mL**
At stated conc. (µg/mL) in 10% HCl, 1% HNO_3 tr. HF 8 comps.

Mo (Molybdenum)	10
Sb (Antimony)	10
Sn (Tin)	10
Ge (Germanium)	10
Ru (Ruthenium)	10
Pd (Palladium)	10
Ti (Titanium)	5
Ir (Iridium)	5

Tuning Solution Sets

AG-TUN-ASL-1-SET **2 x 100 mL**
AG-TUN1-ASL-1
AG-TUN2-ASL-1

AG-TUN-ASL-5-SET **2 x 500 mL**
AG-TUN1-ASL-5
AG-TUN2-ASL-5

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ICP
Alternate Source

AccuStandard equivalent of Agilent Solutions

Environmental Calibration Standard

AG-CAL-ASL-1 **100 mL**
AG-CAL-ASL-5 **500 mL**
At stated conc. (µg/mL) in 10% HNO_3 25 comps.

Ca (Calcium)	1000
Fe (Iron)	1000
K (Potassium)	1000
Mg (Magnesium)	1000
Na (Sodium)	1000
Ag (Silver)	10
Al (Aluminum)	10
As (Arsenic)	10
Ba (Barium)	10
Be (Beryllium)	10
Cd (Cadmium)	10
Co (Cobalt)	10
Cr (Chromium)	10
Cu (Copper)	10
Mn (Manganese)	10
Mo (Molybdenum)	10
Ni (Nickel)	10
Pb (Lead)	10
Sb (Antimony)	10
Se (Selenium)	10
Tl (Thallium)	10
V (Vanadium)	10
Zn (Zinc)	10
Th (Thorium)	10
U (Uranium)	10

Environmental Initial Calibration Verification

AG-VER1-ASL-1 **100 mL**
AG-VER1-ASL-5 **500 mL**
At stated conc. (µg/mL) in 5% HNO_3 26 comps.

Ca (Calcium)	1000
Fe (Iron)	1000
K (Potassium)	1000
Mg (Magnesium)	1000
Na (Sodium)	1000
Sr (Strontium)	1000
Ag (Silver)	10
Al (Aluminum)	10
As (Arsenic)	10
Ba (Barium)	10
Be (Beryllium)	10
Cd (Cadmium)	10
Co (Cobalt)	10
Cr (Chromium)	10
Cu (Copper)	10
Mn (Manganese)	10
Mo (Molybdenum)	10
Ni (Nickel)	10
Pb (Lead)	10
Sb (Antimony)	10
Se (Selenium)	10
Tl (Thallium)	10
V (Vanadium)	10
Zn (Zinc)	10
Th (Thorium)	10
U (Uranium)	10

Interference Check 6020 #1

AG-INTFR-6020-ASL-1 **100 mL**
AG-INTFR-6020-ASL-5 **500 mL**
At stated conc. (µg/mL) in 5% HNO_3 tr. HF 12 comps.

Cl (Chloride)	20,000
Ca (Calcium)	3000
Fe (Iron)	2500
Na (Sodium)	2500
C (Carbon)	2000
Al (Aluminum)	1000
Mg (Magnesium)	1000
P (Phosphorus)	1000
K (Potassium)	1000
S (Sulfur)	1000
Mo (Molybdenum)	20
Ti (Titanium)	20

Interference Check 6020 #2

AG-INTFR2-6020-ASL-1 **/ 100 mL**
AG-INTFR2-6020-ASL-5 **/ 500 mL**
At stated conc. (µg/mL) in 5% HNO_3 11 comps.

Cr (Chromium)	20
Co (Cobalt)	20
Cu (Copper)	20
Mn (Manganese)	20
Ni (Nickel)	20
V (Vanadium)	20
As (Arsenic)	10
Cd (Cadmium)	10
Se (Selenium)	10
Zn (Zinc)	10
Ag (Silver)	5

Environmental Spike Mix

AG-SPIKE-ASL-1 **100 mL**
AG-SPIKE-ASL-5 **500 mL**
At stated conc. (µg/mL) in 5% HNO_3 22 comps.

Ca (Calcium)	1000
Fe (Iron)	1000
K (Potassium)	1000
Mg (Magnesium)	1000
Na (Sodium)	1000
Ag (Silver)	100
Al (Aluminum)	100
As (Arsenic)	100
Ba (Barium)	100
Be (Beryllium)	100
Cd (Cadmium)	100
Co (Cobalt)	100
Cr (Chromium)	100
Mn (Manganese)	100
Mo (Molybdenum)	100
Pb (Lead)	100
Sb (Antimony)	100
Se (Selenium)	100
Tl (Thallium)	100
V (Vanadium)	100
Zn (Zinc)	100
U (Uranium)	100

Environmental Internal Standard

AG-INT-ASL-1 **100 mL**
AG-INT-ASL-5 **500 mL**
10 µg/mL each in 5-10% HNO_3 7 comps.

Bi (Bismuth)	Sc (Scandium)
Ge (Germanium)	Tb (Terbium)
In (Indium)	Y(Yttrium)
Li-6 (Lithium)	

Multi-Element Calibration Std. #1

AG-MECAL1-ASL-1 **100 mL**
AG-MECAL1-ASL-5 **500 mL**
10 µg/mL each in 5% HNO_3 17 comps.

Ce (Cerium)	Pr (Praseodymium)
Dy (Dysprosium)	Sc (Scandium)
Er (Erbium)	Sm (Samarium)
Eu (Europium)	Tb (Terbium)
Gd (Gadolinium)	Th (Thorium)
Ho (Holmium)	Tm (Thulium)
La (Lanthanum)	Y (Yttrium)
Lu (Lutetium)	Yb (Ytterbium)
Nd (Neodymium)	

Multi-Element Calibration Std.#2A

AG-MECAL2-ASL-1 **100 mL**
AG-MECAL2-ASL-5 **500 mL**
10 µg/mL each in 5% HNO_3 25 comps.

Ag (Silver)	Li (Lithium)
Al (Aluminum)	Mg (Magnesium)
As (Arsenic)	Mn (Manganese)
Ba (Barium)	Na (Sodium)
Be (Beryllium)	Ni (Nickel)
Ca (Calcium)	Pb (Lead)
Cd (Cadmium)	Rb (Rubidium)
Co (Cobalt)	Se (Selenium)
Cr (Chromium)	Sr (Strontium)
Cs (Cesium)	Tl (Thallium)
Cu (Copper)	U (Uranium)
Fe (Iron)	V (Vanadium)
Ga (Gallium)	Zn (Zinc)
K (Potassium)	

Multi-Element Calibration Std. #3

AG-MECAL3-ASL-1 **100 mL**
AG-MECAL3-ASL-5 **500 mL**
10 µg/mL each in 10% HCl 10 comps.

Au (Gold)	Rh (Rhodium)
Hf (Hafnium)	Ru (Ruthenium)
Ir (Iridium)	Sb (Antimony)
Pd (Palladium)	Sn (Tin)
Pt (Platinum)	Te (Tellurium)

Multi-Element Calibration Std. #4

AG-MECAL4-ASL-1 * **100 mL**
AG-MECAL4-ASL-5 * **500 mL**
10 µg/mL each in Water, tr. HF 12 comps.

B (Boron)	S (Sulfur)
Ge (Germanium)	Si (Silicon)
Mo (Molybdenum)	Ta (Tantalum)
Nb (Niobium)	Ti (Titanium)
P (Phosphorus)	W (Tungsten)
Re (Rhenium)	Zr (Zirconium)

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Alternate Source

AccuStandard equivalent of Jobin Yvon (JY)

Instrument Calibration Standard Heavy Metals

JY-CALHM-ASL-1 **100 mL**
JY-CALHM-ASL-5 **500 mL**
At stated conc. (µg/mL) in 2-5% HNO_3 5 comps.

As (Arsenic)	100
Tl (Thallium)	100
Cd (Cadmium)	50
Se (Selenium)	50
Pb (Lead)	30

Instrument Calibration Standard

JY-CAL-ASL-1 **100 mL**
JY-CAL-ASL-5 **500 mL**
5000 µg/mL each in 2-5% HNO_3 4 comps.

Ca (Calcium)
K (Potassium)
Mg (Magnesium)
Na (Sodium)

Instrument Check Standard

JY-CHK-ASL-1 **100 mL**
JY-CHK-ASL-5 **500 mL**
50 µg/mL each in 2-5% HNO_3 9 comps.

Al (Aluminum)
As (Arsenic)
Co (Cobalt)
Cr (Chromium)
Cu (Copper)
K (Potassium)
Na (Sodium)
P (Phosphorus)
Pb (Lead)

Instrument Check Standard 1

JY-CHK1-ASL-1 **100 mL**
JY-CHK1-ASL-5 **500 mL**
At stated conc. (µg/mL) in 5% HNO_3 5 comps.

K (Potassium)	1500
Pb (Lead)	1000
Al (Aluminum)	500
Mg (Magnesium)	500
Cd (Cadmium)	100

Quality Control Standard 7

JY-QC7-ASL-1 **100 mL**
JY-QC7-ASL-5 **500 mL**
At stated conc. (µg/mL) in 2-5% HNO_3 7 comps.

K (Potassium)	1000
Si (Silicon)	500
Al (Aluminum)	100
B (Boron)	100
Ba (Barium)	100
Na (Sodium)	100
Ag (Silver)	50

Quality Control Standard 21

JY-QC21-ASL-1 **100 mL**
JY-QC21-ASL-5 **500 mL**
100 µg/mL each in 2-5% HNO_3 tr. HF 21 comps.

As (Arsenic)
Be (Beryllium)
Ca (Calcium)
Cd (Cadmium)
Co (Cobalt)
Cr (Chromium)
Cu (Copper)
Fe (Iron)
Li (Lithium)
Mg (Magnesium)
Mn (Manganese)
Mo (Molybdenum)
Ni (Nickel)
Pb (Lead)
Sb (Antimony)
Se (Selenium)
Sr (Strontium)
Ti (Titanium)
Tl (Thallium)
V (Vanadium)
Zn (Zinc)

Quality Control Standard 23

JY-QC23-ASL-1 **100 mL**
JY-QC23-ASL-5 **500 mL**
1000 µg/mL each in 2-5% HNO_3 23 comps.

Ag (Silver)
Al (Aluminum)
B (Boron)
Ba (Barium)
Bi (Bismuth)
Cd (Cadmium)
Ca (Calcium)
Cr (Chromium)
Co (Cobalt)
Cu (Copper)
Fe (Iron)
Ga (Gallium)
In (Indium)
K (Potassium)
Li (Lithium)
Mg (Magnesium)
Mn (Manganese)
Na (Sodium)
Ni (Nickel)
Pb (Lead)
Sr (Strontium)
Tl (Thallium)
Zn (Zinc)

AccuStandard equivalent of Perkin Elmer (PE)

Alternate Interferents A

PE-ALTINTA-ASL-1 **100 mL**
PE-ALTINTA-ASL-5 **500 mL**
1000 µg/mL each in 5% HNO_3 6 comps.

Cr (Chromium)
Cu (Copper)
Mn (Manganese)
Ni (Nickel)
Ti (Titanium)
V (Vanadium)

Analytes B

PE-ANAB-ASL-1 **100 mL**
PE-ANAB-ASL-5 **500 mL**
At stated conc. (µg/mL) in 5% HNO_3 tr. HF, tr. Tartaric acid 14 comps.

Cd (Cadmium)	100
Ni (Nickel)	100
Zn (Zinc)	100
Sb (Antimony)	60
Ba (Barium)	50
Be (Beryllium)	50
Co (Cobalt)	50
Cr (Chromium)	50
Cu (Copper)	50
Mn (Manganese)	50
V (Vanadium)	50
Ag (Silver)	20
As (Arsenic)	10
Tl (Thallium)	10

Alternate Analytes B

PE-ALTB-ASL-1 **100 mL**
PE-ALTB-ASL-5 **500 mL**
At stated conc. (µg/mL) in 5% HNO_3 tr. HF, tr. Tartaric acid 12 comps.

Al (Aluminum)	100
As (Arsenic)	100
B (Boron)	100
Mo (Molybdenum)	100
Na (Sodium)	100
Sb (Antimony)	100
Se (Selenium)	100
Tl (Thallium)	100
Ca (Calcium)	10
Fe (Iron)	10
Mg (Magnesium)	10
Si (Silicon)	10

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AccuStandard equivalent of Perkin Elmer (PE)

Instrument Calibration Std. 1
PE-CAL1-ASL-1 **100 mL**
PE-CAL1-ASL-5 **500 mL**
20 µg/mL each in 2% HNO_3 tr. Tartaric acid 20 comps.

Ag (Silver)	Mo (Molybdenum)
Al (Aluminum)	Ni (Nickel)
As (Arsenic)	Pb (Lead)
Ba (Barium)	Sb (Antimony)
Be (Beryllium)	Se (Selenium)
Cd (Cadmium)	Th (Thorium)
Co (Cobalt)	Tl (Thallium)
Cr (Chromium)	U (Uranium)
Cu (Copper)	V (Vanadium)
Mn (Manganese)	Zn (Zinc)

Instrument Calibration Std. 2
PE-CAL2-ASL-1 **100 mL**
PE-CAL2-ASL-5 **500 mL**
100 µg/mL each in 5% HNO_3 tr. HF, tr. Tartaric acid 26 comps.

Ag (Silver)	Mn (Manganese)
Al (Aluminum)	Mo (Molybdenum)
As (Arsenic)	Na (Sodium)
Ba (Barium)	Ni (Nickel)
Be (Beryllium)	Pb (Lead)
Ca (Calcium)	Sb (Antimony)
Cd (Cadmium)	Se (Selenium)
Co (Cobalt)	Sn (Tin)
Cr (Chromium)	Sr (Strontium)
Cu (Copper)	Ti (Titanium)
Fe (Iron)	Tl (Thallium)
K (Potassium)	V (Vanadium)
Mg (Magnesium)	Zn (Zinc)

Instrument Calibration Std. 3
PE-CAL3-ASL-1 **100 mL**
PE-CAL3-ASL-5 **500 mL**
1000 µg/mL each in 5% HNO_3 5 comps.

Fe (Iron)	Na (Sodium)
K (Potassium)	Mg (Magnesium)
Ca (Calcium)	

Initial Calibration Verification Std.
PE-CRDL1-ASL-1 **100 mL**
PE-CRDL1-ASL-5 **500 mL**
At stated conc. (µg/mL) in 5% HNO_3 tr. Tartaric acid 21 comps.

Ca (Calcium)	5000
Mg (Magnesium)	5000
K (Potassium)	5000
Na (Sodium)	5000
Ba (Barium)	200
Al (Aluminum)	200
Fe (Iron)	100
Sb (Antimony)	60
Co (Cobalt)	50
V (Vanadium)	50
Ni (Nickel)	40
Cu (Copper)	25
Zn (Zinc)	20
Mn (Manganese)	15
As (Arsenic)	10
Cr (Chromium)	10
Ag (Silver)	10
Tl (Thallium)	10
Cd (Cadmium)	5
Se (Selenium)	5
Pb (Lead)	3

Supplied as a 10X concentrate for better stability.

Instrument Calibration Std. 1
PE-CAL4-ASL-1 **100 mL**
PE-CAL4-ASL-5 **500 mL**
5000 µg/mL each in 5% HNO_3 4 comps.

Ca (Calcium)	Mg (Magnesium)
K (Potassium)	Na (Sodium)

Instrument Calibration Std. 2
PE-CAL5-ASL-1 **100 mL**
PE-CAL5-ASL-5 **500 mL**
At stated conc. (µg/mL) in 5% HNO_3 5 comps.

Ni (Nickel)	400
Zn (Zinc)	200
Mn (Manganese)	150
Ag (Silver)	100
Cr (Chromium)	100

Instrument Calibration Std. 3
PE-CAL6-ASL-1 **100 mL**
PE-CAL6-ASL-5 **500 mL**
At stated conc. (µg/mL) in 5% HNO_3 7 comps.

Al (Aluminum)	2000
Ba (Barium)	2000
Fe (Iron)	1000
Co (Cobalt)	500
V (Vanadium)	500
Cu (Copper)	250
Be (Beryllium)	50

Instrument Calibration Std. 4
PE-CAL7-ASL-1 **100 mL**
PE-CAL7-ASL-5 **500 mL**
At stated conc. (µg/mL) in 5% HNO_3 5 comps.

As (Arsenic)	100
Tl (Thallium)	100
Cd (Cadmium)	50
Se (Selenium)	50
Pb (Lead)	50

Detection Limit
PE-CRDL2-ASL-1 **100 mL**
PE-CRDL2-ASL-5 **500 mL**
At stated conc. (µg/mL) in 5% HNO_3 tr. HF tr. Tartaric acid 15 comps.

Sb (Antimony)	120
Co (Cobalt)	100
V (Vanadium)	100
Ni (Nickel)	80
Cu (Copper)	50
Zn (Zinc)	40
Mn (Manganese)	30
Ag (Silver)	20
As (Arsenic)	20
Cr (Chromium)	20
Tl (Thallium)	20
Be (Beryllium)	10
Cd (Cadmium)	10
Se (Selenium)	10
P (Phosphorus)	6

Instrument Check Standard 1
PE-CHK1-ASL-1 **100 mL**
PE-CHK1-ASL-5 **500 mL**
10 µg/mL each in 2% HNO_3 tr. HF, tr. Tartaric acid 17 comps.

Ag (Silver)	Mn (Manganese)
Al (Aluminum)	Ni (Nickel)
As (Arsenic)	Pb (Lead)
Ba (Barium)	Sb (Antimony)
Be (Beryllium)	Se (Selenium)
Cd (Cadmium)	Tl (Thallium)
Co (Cobalt)	V (Vanadium)
Cr (Chromium)	Zn (Zinc)
Cu (Copper)	

Instrument Check Standard 3
PE-CHK3-ASL-1 **100 mL**
PE-CHK3-ASL-5 **500 mL**
200 µg/mL each in 2% HNO_3 5 comps.

Ca (Calcium)	Mg (Magnesium)
Fe (Iron)	Na (Sodium)
K (Potassium)	

Instrument Check Standard 4
PE-CHK4-ASL-1 **100 mL**
PE-CHK4-ASL-5 **500 mL**
10 µg/mL each in 2% HNO_3 3 comps.

Mo (Molybdenum)	U (Uranium)
Th (Thorium)	

Instrument Check Standard 5
PE-CHK5-ASL-1 **100 mL**
PE-CHK5-ASL-5 **500 mL**
10 µg/mL each in 2% HNO_3 tr. HF 4 comps.

Mo (Molybdenum)	Sr (Strontium)
Sn (Tin)	Tl (Thallium)

Detection Limit Standard for use with the ELAN 5000
PE-CRDL3-ASL-1 **100 mL**
PE-CRDL3-ASL-5 **500 mL**
1 µg/mL each in 1% HNO_3 5 comps.

Be (Beryllium)	Tl (Thallium)
Co (Cobalt)	U (Uranium)
In (Indium)	

Supplied as a 100X concentrate for better stability.

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AccuStandard equivalent of Perkin Elmer (PE)

Interference Check Standard 5
PE-ICS5-ASL-1 **100 mL**
PE-ICS5-ASL-5 **500 mL**
At stated conc. (µg/mL) in 5% HNO_3 5 comps.

Ca (Calcium)	6000
Fe (Iron)	5000
Mg (Magnesium)	3000
Al (Aluminum)	1200
Na (Sodium)	1000

Interference Check Standard 18
PE-ICS18-ASL-1-SET **2 x 100 mL**
PE-ICS18-ASL-5-SET **2 x 500 mL**

PE-ICS18-ASL
At stated conc. (µg/mL) in 5% HNO_3 16 comps.

K (Potassium)	20000
As (Arsenic)	1000
Pb (Lead)	1000
Tl (Thallium)	1000
Se (Selenium)	500
Ag (Silver)	300
Ba (Barium)	300
Cd (Cadmium)	300
Co (Cobalt)	300
Cr (Chromium)	300
Cu (Copper)	300
Ni (Nickel)	300
V (Vanadium)	300
Zn (Zinc)	300
Mn (Manganese)	200
Be (Beryllium)	100

PE-ICS18-HG-ASL
100 µg/mL in 5% HNO_3

Hg (Mercury)

Supplied separately for better product stability.

Internal Standard Mix
PE-INT-ASL-1 **100 mL**
PE-INT-ASL-5 **500 mL**
10 µg/mL each in 5-10% HNO_3 7 comps.

Li6 (Lithium)	In (Indium)
Sc (Scandium)	Tb (Terbium)
Ge (Germanium)	Bi (Bismuth)
Y(Yttrium)	

Interferents A
PE-INTA-ASL-1 **100 mL**
PE-INTA-ASL-5 **500 mL**
At stated conc. (µg/mL) in 5% HNO_3 4 comps.

Al (Aluminum)	5000
Ca (Calcium)	5000
Mg (Magnesium)	5000
Fe (Iron)	2000

Interferents Check Solution 1
PE-INTFR1-ASL-1 **100 mL**
PE-INTFR1-ASL-5 **500 mL**
At stated conc. (µg/mL) in 5% HNO_3 12 comps.

Cl (Chloride)	10000
C (Carbon)	2000
Al (Aluminum)	100
Ca (Calcium)	100
Fe (Iron)	100
K (Potassium)	100
Mg (Magnesium)	100
Na (Sodium)	100
P (Phosphorus)	100
S (Sulfur)	100
Mo (Molybdenum)	20
Ti (Titanium)	20

Interference Check Solution 2
PE-INTFR2-ASL-1 **100 mL**
PE-INTFR2-ASL-5 **500 mL**
10 µg/mL each in 2% HNO_3 9 comps.

Ag (Silver)	Cu (Copper)
As (Arsenic)	Mn (Manganese)
Cd (Cadmium)	Ni (Nickel)
Co (Cobalt)	Zn (Zinc)
Cr (Chromium)	

Interference Check Standard A
PE-INTFRA-ASL-1 **100 mL**
PE-INTFRA-ASL-5 **500 mL**
At stated conc. (µg/mL) in 5% HNO_3 tr. HF 12 comps.

Cl (Chloride)	21215
Ca (Calcium)	3000
Na (Sodium)	2500
Fe (Iron)	2500
C (Carbon)	2000
Al (Aluminum)	1000
K (Potassium)	1000
Mg (Magnesium)	1000
P (Phosphorus)	1000
S (Sulfur)	1000
Mo (Molybdenum)	20
Ti (Titanium)	20

Interference Check Standard B
PE-INTFRB-ASL-1 **100 mL**
PE-INTFRB-ASL-5 **500 mL**
At stated conc. (µg/mL) in 2% HNO_3 11 comps.

Co (Cobalt)	20
Cr (Chromium)	20
Cu (Copper)	20
Mn (Manganese)	20
Ni (Nickel)	20
V (Vanadium)	20
As (Arsenic)	10
Cd (Cadmium)	10
Se (Selenium)	10
Zn (Zinc)	10
Ag (Silver)	5

Interference Check Standard C
PE-INTFRC-ASL-1-SET **2 x 100 mL**
PE-INTFRC-ASL-5-SET **2 x 500 mL**
2 µg/mL each in 2% HNO_3 tr. HF tr. Tartaric acid 16 comps.

Sb (Antimony)	Pb (Lead)
As (Arsenic)	Mn (Manganese)
Ba (Barium)	Ni (Nickel)
Be (Beryllium)	Se (Selenium)
Cd (Cadmium)	Ag (Silver)
Cr (Chromium)	Tl (Thallium)
Co (Cobalt)	V (Vanadium)
Cu (Copper)	Zn (Zinc)

PE-INTFRC-HG-ASL
2 µg/mL in 5% HNO_3

Hg (Mercury)

Supplied separately for better product stability.

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AccuStandard equivalent of Perkin Elmer (PE)

Mixed Calibration Standard
PE-MCS-ASL-1 **100 mL**
PE-MCS-ASL-5 **500 mL**
At stated conc. (µg/mL) in 2% HNO_3 10 comps.

As (Arsenic)	50
K (Potassium)	50
La (Lanthanum)	10
Li (Lithium)	10
Mn (Manganese)	10
Ni (Nickel)	10
Sr (Strontium)	10
Zn (Zinc)	10
Ba (Barium)	1
Mg (Magnesium)	1

Mixed Calibration Standard 1
PE-MCS1-ASL-1 **100 mL**
PE-MCS1-ASL-5 **500 mL**
At stated conc. (µg/mL) in 2% HNO_3 6 comps.

Pb (Lead)	500
Se (Selenium)	200
Cd (Cadmium)	150
Zn (Zinc)	150
Mn (Manganese)	100
Be (Beryllium)	50

Mixed Calibration Standard 2
PE-MCS2-ASL-1 **100 mL**
PE-MCS2-ASL-5 **500 mL**
At stated conc. (µg/mL) in 5% HNO_3 5 comps.

Fe (Iron)	10000
Ba (Barium)	100
Co (Cobalt)	100
Cu (Copper)	100
V (Vanadium)	100

Mixed Calibration Standard 3
PE-MCS3-ASL-1 **100 mL**
PE-MCS3-ASL-5 **500 mL**
at stated conc. (µg/mL) in 2% HNO_3 tr. HF 3 comps.

As (Arsenic)	500
Mo (Molybdenum)	100
Si (Silicon)	100

Mixed Calibration Standard 4
PE-MCS4-ASL-1 **100 mL**
PE-MCS4-ASL-5 **500 mL**
At stated conc. (µg/mL) in 5% HNO_3 6 comps.

Ca (Calcium)	1000
K (Potassium)	400
Al (Aluminum)	200
Na (Sodium)	200
Cr (Chromium)	20
Ni (Nickel)	20

Mixed Calibration Standard 5
PE-MCS5-ASL-1 **100 mL**
PE-MCS5-ASL-5 **500 mL**
At stated conc. (µg/mL) in 5% HNO_3, tr. HF tr. Tartaric acid 5 comps.

Mg (Magnesium)	1000
Sb (Antimony)	200
Tl (Thallium)	200
B (Boron)	100
Ag (Silver)	50

Multi-Element Calibration Standard 1
PE-MECAL1-ASL-1 **100 mL**
PE-MECAL1-ASL-5 **500 mL**
10 µg/mL each in 2% HNO_3 9 comps.

Be (Beryllium)	Mg (Magnesium)
Bi (Bismuth)	Ni (Nickel)
Ce (Cerium)	Pb (Lead)
Co (Cobalt)	U (Uranium)
In (Indium)	

Multi-Element Calibration Standard 2
PE-MECAL2-ASL-1 **100 mL**
PE-MECAL2-ASL-5 **500 mL**
10 µg/mL each in 5% HNO_3 17 comps.

Ce (Cerium)	Pr (Praseodymium)
Dy (Dysprosium)	Sm (Samarium)
Er (Erbium)	Sc (Scandium)
Eu (Europium)	Tb (Terbium)
Gd (Gadolinium)	Th (Thorium)
Ho (Holmium)	Tm (Thulium)
La (Lanthanum)	Yb (Ytterbium)
Lu (Lutetium)	Y (Yttrium)
Nd (Neodymium)	

Multi-Element Calibration Standard 3
PE-MECAL3-ASL-1-SET **2 x 100 mL**
PE-MECAL3-ASL-5-SET **2 x 500 mL**

PE-MECAL3-ASL
10 µg/mL each in 5% HNO_3 29 comps.

Ag (Silver)	K (Potassium)
Al (Aluminum)	Li (Lithium)
As (Arsenic)	Mg (Magnesium)
Ba (Barium)	Mn (Manganese)
Be (Beryllium)	Na (Sodium)
Bi (Bismuth)	Ni (Nickel)
Ca (Calcium)	Pb (Lead)
Cd (Cadmium)	Rb (Rubidium)
Co (Cobalt)	Se (Selenium)
Cr (Chromium)	Sr (Strontium)
Cs (Cesium)	Tl (Thallium)
Cu (Copper)	U (Uranium)
Fe (Iron)	V (Vanadium)
Ga (Gallium)	Zn (Zinc)
In (Indium)	

PE-MECAL3-HG-ASL
10 µg/mL in 5% HNO_3

Hg (Mercury)

Supplied separately for better product stability.

Multi-Element Calibration Standard 4
PE-MECAL4-ASL-1 **100 mL**
PE-MECAL4-ASL-5 **500 mL**
10 µg/mL each in 10% HCl 10 comps.

Au (Gold)	Rh (Rhodium)
Hf (Hafnium)	Ru (Ruthenium)
Ir (Iridium)	Sb (Antimony)
Pd (Palladium)	Sn (Tin)
Pt (Platinum)	Te (Tellurium)

Multi-Element Calibration Standard 5
PE-MECAL5-ASL-1 * **100 mL**
PE-MECAL5-ASL-5 * **500 mL**
10 µg/mL each in Water, tr. HF 12 comps.

B (Boron)	S (Sulfur)
Ge (Germanium)	Si (Silicon)
Mo (Molybdenum)	Ta (Tantalum)
Nb (Niobium)	Ti (Titanium)
P (Phosphorus)	W (Tungsten)
Re (Rhenium)	Zr (Zirconium)

Multi-Element Internal Standard
PE-MEINT-ASL-1 **100 mL**
PE-MEINT-ASL-5 **500 mL**
10 µg/mL each in 2% HNO_3 7 comps.

Bi (Bismuth)	Sc (Scandium)
Ho (Holmium)	Tb (Terbium)
In (Indium)	Y(Yttrium)
Li6 (Lithium)	

Memory Test 1
PE-MEM1-ASL-1 **100 mL**
PE-MEM1-ASL-5 **500 mL**
At stated conc. (µg/mL) in 5% HNO_3 21 comps.

Al (Aluminum)	1000
Ca (Calcium)	1000
Fe (Iron)	1000
K (Potassium)	1000
Mg (Magnesium)	1000
Na (Sodium)	1000
Ag (Silver)	20
As (Arsenic)	20
Ba (Barium)	20
Be (Beryllium)	20
Cd (Cadmium)	20
Co (Cobalt)	20
Cr (Chromium)	20
Cu (Copper)	20
Mn (Manganese)	20
Ni (Nickel)	20
Pb (Lead)	20
Se (Selenium)	20
Tl (Thallium)	20
V (Vanadium)	20
Zn (Zinc)	20

Memory Test 2
PE-MEM2-ASL-1 * **100 mL**
PE-MEM2-ASL-5 * **500 mL**
At stated conc. (µg/mL) in Water, tr. HF 6 comps.

Cl (Chloride)	7200
C (Carbon)	2000
P (Phosphorus)	1000
Mo (Molybdenum)	20
Sb (Antimony)	20
Tl (Thallium)	20

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ICP
Alternate Source

AccuStandard equivalent of Perkin Elmer (PE)

QC Standard 7 Elements

PE-QC7-ASL-1 **100 mL**
PE-QC7-ASL-5 **500 mL**
At stated conc. (µg/mL) in 5% HNO_3 tr. HF 7 comps.

K (Potassium)	1000
Si (Silicon)	500
Al (Aluminum)	100
B (Boron)	100
Ba (Barium)	100
Na (Sodium)	100
Ag (Silver)	50

QC Standard 21 Elements

PE-QC21-ASL-1 **100 mL**
PE-QC21-ASL-5 **500 mL**
100 µg/mL each in 5% HNO_3, tr. HF, tr. Tartaric acid 21 comps.

As (Arsenic)	Mo (Molybdenum)
Be (Beryllium)	Ni (Nickel)
Ca (Calcium)	Pb (Lead)
Cd (Cadmium)	Sb (Antimony)
Co (Cobalt)	Se (Selenium)
Cr (Chromium)	Sr (Strontium)
Cu (Copper)	Ti (Titanium)
Fe (Iron)	Tl (Thallium)
Li (Lithium)	V (Vanadium)
Mg (Magnesium)	Zn (Zinc)
Mn (Manganese)	

Primary Drinking Water Metals

PE-SDWA1-ASL-1-SET **2 x 100 mL**
PE-SDWA1-ASL-5-SET **2 x 500 mL**

PE-SDWA1-ASL
At stated conc. (µg/mL) in 2% HNO_3 7 comps.

Ba (Barium)	100
Ag (Silver)	10
As (Arsenic)	10
Cr (Chromium)	10
Pb (Lead)	10
Cd (Cadmium)	5
Se (Selenium)	5

PE-SDWA1-HG-ASL
10 µg/mL in 2% HNO_3

Hg (Mercury)

Supplied separately for better product stability.

Secondary Drinking Water Metals

PE-SDWA2-ASL-1 **100 mL**
PE-SDWA2-ASL-5 **500 mL**
At stated conc. (µg/mL) in 2% HNO_3 4 comps.

Zn (Zinc)	500
Cu (Copper)	100
Fe (Iron)	30
Mn (Manganese)	5

ELAN 9000/6X00 Dual Detector Calibration Solution

PE-SETUP1-ASL-1 **100 mL**
PE-SETUP1-ASL-5 **500 mL**
2 µg/mL each in 1% HNO_3 tr. HCl 5 comps.

Cd (Cadmium)	Mg (Magnesium)
Cu (Copper)	Rh (Rhodium)
Pb (Lead)	

Supplied as a 10X concentrate for better stability.

ELAN 6000/5000 Plasma Setup Solution

PE-SETUP2-ASL-1 **100 mL**
PE-SETUP2-ASL-5 **500 mL**
1 µg/mL each in 2% HNO_3 tr. HCl 11 comps.

Ba (Barium)	Mg (Magnesium)
Cd (Cadmium)	Rh (Rhodium)
Ce (Cerium)	Sc (Scandium)
Cu (Copper)	Tb (Terbium)
Ge (Germanium)	Tl (Thallium)
Pb (Lead)	

Supplied as a 100X concentrate for better stability.

NEW

SmartTune Solution for ELAN/DRC-e

PE-SMTUNE-ASL-1 **100 mL**
PE-SMTUNE-ASL-5 **500 mL**
1 µg/mL each in 2% HNO_3 tr. HCl 9 comps.

Ba (Barium)	Pb (Lead)
Be (Beryllium)	Mg (Magnesium)
Ce (Cerium)	Rh (Rhodium)
Co (Cobalt)	U (Uranium)
In (Indium)	

Supplied as a 100X concentrate for better stability.

Spike Sample Analysis

PE-SPIKE-ASL-1 **100 mL**
PE-SPIKE-ASL-5 **500 mL**
At stated conc. (µg/mL) in 5% HNO_3, tr. HF, tr. Tartaric acid 18 comps.

Al (Aluminum)	200
As (Arsenic)	200
Ba (Barium)	200
Se (Selenium)	200
Tl (Thallium)	200
Fe (Iron)	100
Co (Cobalt)	50
Mn (Manganese)	50
Ni (Nickel)	50
Pb (Lead)	50
Sb (Antimony)	50
V (Vanadium)	50
Zn (Zinc)	50
Cu (Copper)	25
Cr (Chromium)	20
Ag (Silver)	5
Be (Beryllium)	5
Cd (Cadmium)	5

Spike Sample Standard I (Water)

PE-SPIKE1-ASL-1 **100 mL**
PE-SPIKE1-ASL-5 **500 mL**
At stated conc. (µg/mL) in 5% HNO_3, tr. HF, tr. Tartaric acid 17 comps.

Fe (Iron)	500
Ba (Barium)	250
Zn (Zinc)	250
Co (Cobalt)	100
Cr (Chromium)	100
Cu (Copper)	100
Mn (Manganese)	100
Ni (Nickel)	100
Sb (Antimony)	100
V (Vanadium)	100
As (Arsenic)	50
Pb (Lead)	50
Ag (Silver)	25
Be (Beryllium)	25
Cd (Cadmium)	25
Se (Selenium)	25
Tl (Thallium)	25

Spike Sample Standard II (Soil)

PE-SPIKE2-ASL-1 **100 mL**
PE-SPIKE2-ASL-5 **500 mL**
At stated conc. (µg/mL) in 5% HNO_3, tr. HF, tr. Tartaric acid 15 comps.

Ba (Barium)	250
Cr (Chromium)	250
Cu (Copper)	250
Zn (Zinc)	250
V (Vanadium)	150
Ni (Nickel)	125
Co (Cobalt)	100
Pb (Lead)	100
Sb (Antimony)	100
As (Arsenic)	50
Cd (Cadmium)	50
Ag (Silver)	25
Be (Beryllium)	25
Se (Selenium)	25
Tl (Thallium)	25

Spike Sample Standard III (for ILM 05.2)

PE-SPIKE3-ASL-1 **100 mL**
PE-SPIKE3-ASL-5 **500 mL**
At stated conc. (µg/mL) in 5% HNO_3, tr. HF, tr. Tartaric acid 17 comps.

Al (Aluminum)	200
Ba (Barium)	200
Co (Cobalt)	50
Mn (Manganese)	50
Ni (Nickel)	50
V (Vanadium)	50
Zn (Zinc)	50
Cu (Copper)	25
Cr (Chromium)	20
Sb (Antimony)	10
Be (Beryllium)	5
Cd (Cadmium)	5
Ag (Silver)	5
Tl (Thallium)	5
As (Arsenic)	4
Pb (Lead)	2
Se (Selenium)	1

These products require a Hazardous Shipping Fee except products marked with an asterisk *

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ICP
Alternate Source

AccuStandard equivalent of Perkin Elmer (PE)

ELAN 9000/6100 Setup/Stab/ Masscal Solution

PE-STAB-ASL-1 **100 mL**
PE-STAB-ASL-5 **500 mL**
1 µg/mL each in 1% HNO_3 tr. HCl 9 comps.

Ba (Barium)	Pb (Lead)
Cd (Cadmium)	Mg (Magnesium)
Ce (Cerium)	Rh (Rhodium)
Cu (Copper)	U (Uranium)
In (Indium)	

Supplied as a 100X concentrate for better stability.

Tuning Solution I

PE-TUNSOL-ASL-1 **100 mL**
PE-TUNSOL-ASL-5 **500 mL**
10 µg/mL each in 2% HNO_3, tr. HCl 12 comps.

Ba (Barium)	Mg (Magnesium)
Be (Beryllium)	Pb (Lead)
Ce (Cerium)	Rh (Rhodium)
Co (Cobalt)	Tl (Thallium)
In (Indium)	U (Uranium)
Li (Lithium)	Y(Yttrium)

Low UV Standard

PE-UV-ASL-1 **100 mL**
PE-UV-ASL-5 **500 mL**
10 µg/mL each in 2% HNO_3 3 comps.

Al (Aluminum)	S (Sulfur)
P (Phosphorus)	

VIS Wavecal Solution

PE-VISWAVE-ASL-1 **100 mL**
PE-VISWAVE-ASL-5 **500 mL**
At stated conc. (µg/mL) in 2% HNO_3 8 comps.

K (Potassium)	50
La (Lanthanum)	10
Li (Lithium)	10
Mn (Manganese)	10
Na (Sodium)	10
Sr (Strontium)	10
Ba (Barium)	1
Ca (Calcium)	1

UV Wavecal Solution

PE-UVWAVE-ASL-1 **100 mL**
PE-UVWAVE-ASL-5 **500 mL**
At stated conc. (µg/mL) in 5% HCl 11 comps.

K (Potassium)	100
P (Phosphorus)	100
S (Sulfur)	100
As (Arsenic)	20
La (Lanthanum)	20
Li (Lithium)	20
Mn (Manganese)	20
Mo (Molybdenum)	20
Na (Sodium)	20
Ni (Nickel)	20
Sc (Scandium)	20

Initial Calibration Verification Standard 1

PE-VER1-ASL-1 **100 mL**
PE-VER1-ASL-5 **500 mL**
At stated conc. (µg/mL) in 5% HNO_3 tr. Tartaric acid 26 comps.

Fe (Iron)	1000
K (Potassium)	1000
Ca (Calcium)	1000
Na (Sodium)	1000
Mg (Magnesium)	1000
Sr (Strontium)	1000
Ag (Silver)	10
Al (Aluminum)	10
As (Arsenic)	10
Ba (Barium)	10
Be (Beryllium)	10
Cd (Cadmium)	10
Co (Cobalt)	10
Cr (Chromium)	10
Cu (Copper)	10
Mn (Manganese)	10
Mo (Molybdenum)	10
Ni (Nickel)	10
Pb (Lead)	10
Sb (Antimony)	10
Se (Selenium)	10
Tl (Thallium)	10
V (Vanadium)	10
Zn (Zinc)	10
Th (Thorium)	10
U (Uranium)	10

Initial Calibration Verification Standard 2

PE-VER2-ASL-1 **100 mL**
PE-VER2-ASL-5 **500 mL**
10 µg/mL each in 2% HNO_3 tr. HF 2 comps.

Sn (Tin)	Tl (Thallium)

Trace Metals I

PE-WPTM1-ASL-1-SET **2 x 100 mL**
PE-WPTM1-ASL-5-SET **2 x 500 mL**

PE-WPTM1-ASL
At stated conc. (µg/mL) in 5% HNO_3 14 comps.

Al (Aluminum)	500
V (Vanadium)	250
As (Arsenic)	100
Be (Beryllium)	100
Co (Cobalt)	100
Cr (Chromium)	100
Cu (Copper)	100
Fe (Iron)	100
Mn (Manganese)	100
Ni (Nickel)	100
Pb (Lead)	100
Zn (Zinc)	100
Cd (Cadmium)	25
Se (Selenium)	25

PE-WPTM1-HG-ASL
10 µg/mL in 5% HNO_3

Hg (Mercury)

Supplied separately for better product stability.

Trace Metals II

PE-WPTM2-ASL-1 **100 mL**
PE-WPTM2-ASL-5 **500 mL**
At stated conc. (µg/mL) in 2% HNO_3 3 comps.

Sb (Antimony)	20
Tl (Thallium)	20
Ag (Silver)	10

Trace Metals III

PE-WPTM3-ASL-1 **100 mL**
PE-WPTM3-ASL-5 **500 mL**
At stated conc. (µg/mL) in 2% HNO_3 6 comps.

Ba (Barium)	500
Ca (Calcium)	500
Mo (Molybdenum)	500
Na (Sodium)	500
K (Potassium)	100
Mg (Magnesium)	100

Alternate Metals 1

PE-WPAM1-ASL-1 **100 mL**
PE-WPAM1-ASL-5 **500 mL**
At stated conc. (µg/mL) in 2% HNO_3 11 comps.

Al (Aluminum)	20
Fe (Iron)	20
V (Vanadium)	20
Co (Cobalt)	10
Cu (Copper)	10
Mn (Manganese)	10
Ni (Nickel)	10
Zn (Zinc)	10
Be (Beryllium)	5
Sb (Antimony)	5
Tl (Thallium)	5

Alternate Metals 3

PE-WPAM3-ASL-1 **100 mL**
PE-WPAM3-ASL-5 **500 mL**
At stated conc. (µg/mL) in 2% HNO_3 4 comps.

Ca (Calcium)	500
Na (Sodium)	500
K (Potassium)	100
Mg (Magnesium)	100

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ICP
Alternate Source

AccuStandard equivalent of Teledyne

Check Mate 1

TELE-CHK1-ASL-1-SET **2 x 100 mL**
TELE-CHK1-ASL-5-SET **2 x 500 mL**

TELE-CHK1-ASL
At stated conc. (µg/mL) in 5% HCl, 1% HNO_3 24 comps.

Ca (Calcium)	100
K (Potassium)	100
Mg (Magnesium)	100
Na (Sodium)	100
Al (Aluminum)	10
As (Arsenic)	10
B (Boron)	10
Ba (Barium)	10
Be (Beryllium)	10
Cd (Cadmium)	10
Co (Cobalt)	10
Cr (Chromium)	10
Cu (Copper)	10
Fe (Iron)	10
Mn (Manganese)	10
Mo (Molybdenum)	10
Ni (Nickel)	10
Pb (Lead)	10
Sb (Antimony)	10
Se (Selenium)	10
Si (Silicon)	10
Tl (Thallium)	10
V (Vanadium)	10
Zn (Zinc)	10

TELE-CHK1-AG-ASL
1000 µg/mL in 2% HNO_3

Ag (Silver)

Supplied separately for better product stability.

Check Mate 2

TELE-CHK2-ASL-1-SET **2 x 100 mL**
TELE-CHK2-ASL-5-SET **2 x 500 mL**

TELE-CHK2-ASL
At stated conc. (µg/mL) in 5% HCl, 1% HNO_3 17 comps.

Ca (Calcium)	100
K (Potassium)	100
Mg (Magnesium)	100
Na (Sodium)	100
Al (Aluminum)	10
Ba (Barium)	10
Be (Beryllium)	10
Cd (Cadmium)	10
Co (Cobalt)	10
Cr (Chromium)	10
Cu (Copper)	10
Fe (Iron)	10
Mn (Manganese)	10
Ni (Nickel)	10
Sb (Antimony)	10
V (Vanadium)	10
Zn (Zinc)	10

TELE-CHK2-AG-ASL
1000 µg/mL in 2% HNO_3

Ag (Silver)

Supplied separately for better product stability.

Check Mate 3

TELE-CHK3-ASL-1-SET **2 x 100 mL**
TELE-CHK3-ASL-5-SET **2 x 500 mL**

TELE-CHK3-ASL
At stated conc. (µg/mL) in 5% HCl, 1% HNO_3 17 comps.

Ca (Calcium)	10
K (Potassium)	10
Mg (Magnesium)	10
Na (Sodium)	10
Al (Aluminum)	1
Ba (Barium)	1
Be (Beryllium)	1
Cd (Cadmium)	1
Co (Cobalt)	1
Cr (Chromium)	1
Cu (Copper)	1
Fe (Iron)	1
Mn (Manganese)	1
Ni (Nickel)	1
Sb (Antimony)	1
V (Vanadium)	1
Zn (Zinc)	1

Supplied separately for better product stability.

TELE-CHK3-AG-ASL
1000 µg/mL in 2% HNO_3

Ag (Silver)

Check Mate 4

TELE-CHK4-ASL-1 **100 mL**
TELE-CHK4-ASL-5 **500 mL**
At stated conc. (µg/mL) in 5% HNO_3 22 comps.

Ca (Calcium)	5000
K (Potassium)	5000
Mg (Magnesium)	5000
Na (Sodium)	5000
Ba (Barium)	200
Fe (Iron)	100
Al (Aluminum)	60
Sb (Antimony)	60
Co (Cobalt)	50
V (Vanadium)	50
Ni (Nickel)	40
Cu (Copper)	25
Zn (Zinc)	20
Mn (Manganese)	15
Ag (Silver)	10
As (Arsenic)	10
Cr (Chromium)	10
Tl (Thallium)	10
Be (Beryllium)	5
Cd (Cadmium)	5
Pb (Lead)	5
Se (Selenium)	5

Check Mate 5

TELE-CHK5-ASL-1 **100 mL**
TELE-CHK5-ASL-5 **500 mL**
At stated conc. (µg/mL) in 5% HNO_3 16 comps.

Ca (Calcium)	2000
K (Potassium)	2000
Mg (Magnesium)	2000
Na (Sodium)	2000
Al (Aluminum)	1000
Ba (Barium)	1000
Fe (Iron)	1000
Co (Cobalt)	500
Ni (Nickel)	500
V (Vanadium)	500
Cr (Chromium)	200
Cu (Copper)	200
Ag (Silver)	100
Be (Beryllium)	100
Mn (Manganese)	100
Zn (Zinc)	100

Check Mate 6

TELE-CHK6-ASL-1 **100 mL**
TELE-CHK6-ASL-5 **500 mL**
At stated conc. (µg/mL) in 5% HNO_3 5 comps.

As (Arsenic)	500
Pb (Lead)	500
Se (Selenium)	500
Tl (Thallium)	500
Cd (Cadmium)	100

Check Mate 7

TELE-CHK7-ASL-1 **100 mL**
TELE-CHK7-ASL-5 **500 mL**
At stated conc. (µg/mL) in 5% HCl, 1% HNO_3 17 comps.

Ca (Calcium)	50
K (Potassium)	50
Mg (Magnesium)	50
Na (Sodium)	50
Al (Aluminum)	5
Ba (Barium)	5
Be (Beryllium)	5
Cd (Cadmium)	5
Co (Cobalt)	5
Cr (Chromium)	5
Cu (Copper)	5
Fe (Iron)	5
Mn (Manganese)	5
Ni (Nickel)	5
Sb (Antimony)	5
V (Vanadium)	5
Zn (Zinc)	5

Check Mate 8

TELE-CHK8-ASL-1 **100 mL**
TELE-CHK8-ASL-5 **500 mL**
At stated conc. (µg/mL) in 5% HNO_3 22 comps.

Ca (Calcium)	5000
K (Potassium)	5000
Na (Sodium)	5000
Mg (Magnesium)	5000
Al (Aluminum)	2000
Ba (Barium)	2000
Fe (Iron)	1000
Sb (Antimony)	600
Co (Cobalt)	500
V (Vanadium)	500
Ni (Nickel)	400
Cu (Copper)	250
Zn (Zinc)	200
Mn (Manganese)	150
Ag (Silver)	100
As (Arsenic)	100
Cr (Chromium)	100
Tl (Thallium)	100
Be (Beryllium)	50
Cd (Cadmium)	50
Pb (Lead)	50
Se (Selenium)	50

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